

The AMX logo is rendered in a bold, dark blue, sans-serif typeface. The letters are thick and blocky, with a slight shadow effect beneath them. A small registered trademark symbol (®) is located at the end of the 'X'. The logo is centered within a light blue circular area.

AMX[®]

everything's possible

automate > success



When it comes to control and digital media, everything's possible with AMX. Based on innovative proven technologies that underpin and define reliable system performance, correctly deployed and knowledgably programmed, these systems ultimately define the user experience and lead to more satisfied customers. Satisfied customers in turn lead to repeat business and referrals, the life-blood of most of us working within the CI business.

Beyond hardware - our respective value propositions genuinely rely on the value added services we provide. We too want to take this to the next level! Many of our services are provided 'free' in anticipation of offering improved communication, coupled with better detail, in a fundamentally more digestible and improved format. Other more labour intensive services, be they off-site / on-site, are inevitably chargeable, and need to compete in the free market with other service providers.

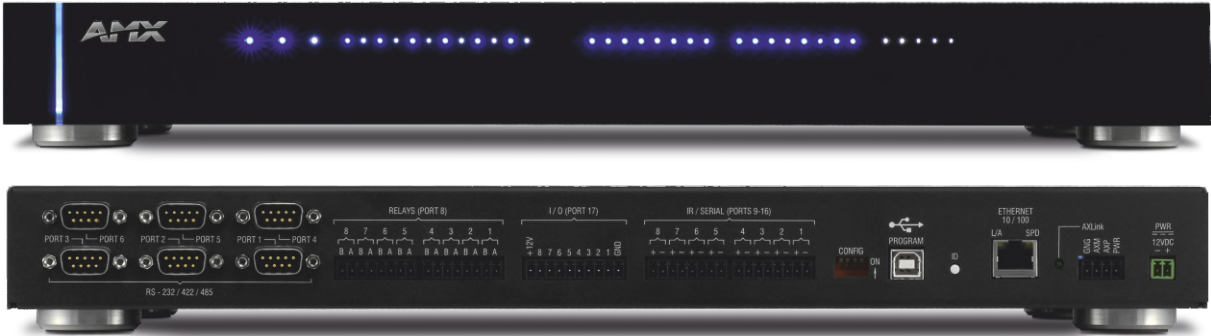


NetLinx® Control Processors

Selection of the appropriate NetLinx control processor depends on the number of devices that need to be controlled and the processing power required, with an option to expand control ports utilising standalone ICS LAN PoE device control interfaces.

NetLinx 700 & 900 processors are designed to control a limited number of devices and are typically deployed for single room applications such as Home Cinema Systems. These processors provide 7/8 control ports, suitable for price-performance applications, including integrated Home Cinema room control.

NetLinx 2100 processors are typically suitable for larger residential systems where up to 15x distinct control ports are required. For the largest more complex systems NetLinx 3100 processors provide up to 31x distinct control ports, whilst the NetLinx 3101-SIG delivers the same performance as the 3100 in a smaller 1U rack-mount form factor.



NI-3101-SIG

Feature	NI-700	NI-900	NI-2100	NI-3100	NI-3101
Integrated NetLinx Master	✓	✓	✓	✓	✓
Digital I/O control ports	4	4	4	8	8
RS-232 / 422 / 485 ports	2	1	3	7	6
IR serial output ports	1	3	4	8	8
Relay ports			4	8	8
IR receiver port	✓	✓	No	No	No
Programming via serial / Ethernet	✓	✓	✓	✓	✓(USB)
Processor speed (MIPS)	304	304	404	404	404
FLASH Memory	32MB	32MB	2GB CF card	2GB CF card	256MB
On-board memory RAM	64MB	64MB	64MB	64MB	64MB
Non-volatile RAM	512KB	512KB	1MB	1MB	1MB
Rack space	1U x 1/3	1u x 1/3	2U	2U	1U
AxLink interface	✓	✓	✓	✓	✓



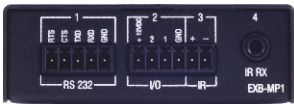
NetLinx® ICS LAN device control interfaces

Add additional control ports anywhere over Ethernet utilising NetLinx® ICS LAN PoE device control interfaces. They're suitable for a wide range of residential applications and introduce control to devices that lack Ethernet connectivity. Five models are available to meet the connectivity needs of most applications, and support entirely scalable systems with complete control over components on your Ethernet network.

Part No.	Model	Description
FG2100-22	EXB-COM2	2x RS-232 control ports
FG2100-21	EXB-I/O8	8x I/O control ports
FG2100-23	EXB-IRS4	4x IR/RS-232 control ports
FG2100-20	EXB-REL8	8x relay control ports
FG2100-26	EXB-MP1	1x RS-232 + 1x IR/S + 2x I/O + 1x IR Rx control ports



EXB-MP1



EXB-I/O8



Lighting and building management integration gateways

NetLinx communication gateways enable seamless communication between NetLinx control processors and residential building management systems that utilise the KNX communication protocol and integrate lighting control, security systems, HVAC, water control, energy management, metering, etc. A DMX512 (Digital MultipleX) interface is also available to integrate DMX based lighting systems.

Part No.	Model	Description
FG2031-01	NXB-KNX	KNX communications gateway
FG5927	AXB-DMX512	DMX communications gateway



Modero® Control Panels

Modero X and S series colour touch panels share the same architectural design and provide a range of advanced user interfaces for dedicated room control which empower users to operate AV equipment seamlessly. Their distinctive low profile design complements even the most sophisticated homes and discerning clients whilst supporting the ultimate in audio and video quality. Available in five sizes (4.3", 7", 10.1", 19.4" and 20.3" panoramic), portrait or landscape orientation, with in-wall or table-top variants. Sizes up to 10.1" are PoE compliant, whilst larger panels require a dedicated power supply. Incorporating the industry's fastest processors, brilliant graphics and enhanced capabilities, Modero control panels simply deliver more.

Modero® X series features

- High resolution edge-to-edge capacitive touch display panel with multi-touch capabilities
- Intuitive UI functionality including gesturing, swiping, dynamic reordering and enhanced animation capabilities
- Integral G5 Quad Core processor with 2GB RAM memory
- Embedded Near Field Communication™ (NFC) technology allows personalization of the user experience and integrates with NFC capable personal devices
- In-Plane Switching (IPS) delivers the widest viewing angles and the most accurate colour reproduction
- Integrated camera supports door entry integration
- External phone connections via Bluetooth or USB with HD video streaming
- Available in five sizes 4.3", 7", 10.1", 19.4" and 20.3" panoramic, portrait or landscape orientated variants, with in-wall or table-top options



Feature	MXD-430	MXD-700	MXD-1000	MXD-1900L-PAN	MXD-2000XP-PAN
Panel size	4.3"	7"	10.1"	19.4"	20.3"
Resolution	480 x 800	1024x600	1280 x 800	1920 x 530	1920 x 800
Wired	✓	✓	✓	✓	✓
Landscape / portrait	Portrait	Both	Both	Both	Both
Intercom + phone support	✓	✓	✓	✓	✓
Full motion video support	✓	✓	✓	✓	✓
512MB RAM memory	✓	✓	✓	✓	✓
PoE	✓	✓	✓	PSU required	PSU required
Dimensions (WxHxD) mm	120x82x61	122x186x63	171x252x67	175x519x19	242x519x19
Black finish	✓	✓	✓	✓	✓



moderoXseries

Modero® S series features

- High resolution resistive single touch display panels with 24-bit colour depth
- Integral G4 graphics engine, single core processor with 51MB RAM memory
- Available in landscape orientation across three sizes 4.3", 7", 10.1"
- In-wall or table-top variants available

Feature	MSD-431-L	MSD-701-L	MSD-1001-L
Panel size	4.3"	7"	10.1"
Resolution	480 x 272	1024 x 600	1280 x 800
Wired	✓	✓	✓
Landscape / portrait	Landscape	Landscape	Landscape
Intercom + phone support	✓	✓	✓
Video capability	M-JPEG	Full motion	Full motion
512MB RAM memory	✓	✓	✓
PoE	✓	PSU required	PSU required
Dimensions (WxHxD) mm	86x128x66	155x188x58	157x264x58
Black finish	✓	✓	✓



moderoSseries



4.3"



7"



10.1"

iOS / Android Control Licences

TPControl licences transform mobile iOS and Android devices into fully functional touch panels for controlling AMX system platforms. These easy-to-use applications provide real-time, touch control of AV systems, lighting, room temperature and more by seamlessly communicating with the AMX control system via Wi-Fi, 3G, GPRS and EDGE cellular networks for reliable system operation. Fully functioning Apps are available free for a 21-day trial download.

Features

- VoiceControl - functionality allows you to talk to your control system and have it talk to you.
- AppControl - allows you to launch installed applications directly from the control environment, start an SMS, launch an email client, web pages, etc. without leaving the control environment
- Multi-Profiles - allows you to dynamically and instantly change connection profiles seamlessly to control different control systems from the same device
- Intercom - enables users to converse with AMX intercom enabled touch panels, and other enabled devices
- TPCloud - enables you to update TP4 files, change device settings or even apply tokens to devices from the My Account section of the Touch Panel Control website
- eICSP - provides secure encryption, verification and ICSP data for your local and remote connections

Part No.	Model	Description
FG2263-06	TPC-IPAD	Touch panel licence for iPad
FG2263-08	TPC-ANDROID-TAB	Touch panel licence for Android tablets
FG2263-05	TPC-I-TOUCH-PHONE	Touch panel licence for iPhone / iPod touch
FG2263-07	TPC-ANDROID	Touch panel licence for Android phones



Flow7®

Flow7 provides a stunning, cost-effective 7” in-wall touch screen control option when combined with a TPControl AMX control licence. Available standalone or pre-loaded with a TPControl control licence.

Features

- High definition 1280x800 resolution LCD touch screen panel
- Scratch-resistant Corning® glass
- Solid aluminium bezel
- Android 4.2 (Jelly Bean) operating system, quad-core processor, 16GB RAM
- Integral 1.2 mega-pixel front-facing camera
- Bluetooth and Wi-Fi 802.11b/g/n
- Mounts within a standard UK single-gang back box (only 25mm deep)
- Fitting options for double-gang UK and US J-box standards
- PoE (5V, 2.1A) - requires PoE injector / suitable PoE switch, available separately

Part No.	Description
STR-FLOW-7	7” high definition in-wall touch screen control panel
STR-FLOW-7-TPC	As above with TPControl licence pre-loaded
STR-POE-I	PoE injector



Flow7 touchscreen panel

Handheld remotes

The Mio Modero R-4 remote control system provides reliable 2-way system control via an elegant 2.4” handheld colour LCD touch panel utilising ZigBee Pro 2.4GHz RF wireless technology. With a typical range of 100’ (depending on the environment and construction materials), near unlimited coverage can be achieved by deploying NetLinx ZigBee repeaters to ensure reliable operation of multiple remotes without interference.

Features

- 2.4” colour active-matrix TFT LCD touch panel
- 240 x 320 pixel resolution
- 29x hard buttons + 2x LCD buttons
- 32MB of Flash memory + 64MB of SDRAM
- Powered by Lithium-Ion rechargeable battery
- Includes charging cradle & ZigBee Pro 2.4GHz RF wireless gateway



Part No.	Model	Description
FG148-25K	Mio Modero R-4	Handheld 2-way Zigbee remote control system

Bluetooth® phone integration option

Integrate your phone with your Modero touch panel. The wireless handset allows Bluetooth audio communication through the touch panel, while the handset’s charging cradle allows recharging either with a USB connection to the touch panel or via the included electrical adapter.

Use the stylish wireless telephone handset to make calls through the integrated VoIP protocol.

Supports the Bluetooth Headset Profile v1.2 and the Hands Free Profile v1.5, including support for advanced features like last number redial and call reject.



Part No.	Model	Description
FG5968-17	MXA-HST	Bluetooth® handset for Modero X & S series touch panels
FG5968-19	MXA-BT	Bluetooth® USB adapter for MXA-HST handset



Metreau® Keypads

Metreau push-button keypads provide cost-effective control interfaces for properties e.g. bedrooms, kitchens and bathrooms where only simplified control is required.

At the heart of the system is the MET-6N, a 6-button keypad with navigation wheel and blue LED indicators for visual feedback. The buttons typically provide source control whilst the navigation wheel adjusts levels (up, down, left, right and select button functions). MET-6N keypads can be used individually or in conjunction with the 7-button and/or 13-button variants. Available in black or white, Metreau keypads mount into standard single-gang wall-plates. A choice of designer screwless face-plates are available separately (black or white gloss finish). Optional pre-printed buttons are available or use Metreau’s Keypad Preview tool to design your own labels.



Part No.	Model	Description
FG5794-01	MET-6N	6-button keypad with navigation wheel, Décora-style
FG5794-03	MET-7	7-button keypad, Décora-style
FG5794-02	MET-13	13-button keypad, Décora-style
FG2605-81	ALD-CW-1	Décora-style single-gang face-plate
FG2605-82	ALD-CW-2	Décora-style dual-gang face-plate
FG2605-83	ALD-CW-3	Décora-style triple-gang face-plate

Metreau® Entry Communicator

Metreau Entry Communicator enables 1-way visual and 2-way audio conversation with visitors at doors and gates. With the addition of a Modero intercom touch panel, home owners can see visitors via an integrated one-way colour camera, have two-way audio conversations, and open doors or gates. An integrated OLED display enables you to customise the display with your preferred announcement / greeting (e.g. “Welcome to the Harpers” appears directly on the display).



Part No.	Model	Description
FG2180-01	MET-ECOM	Metreau Entry Communicator, PoE
FG2180-05	MET-ECOM-D	Metreau Entry Communicator with 1.6” OLED display, PoE
FG039-12		Rough-in box for Metreau Entry Communicator



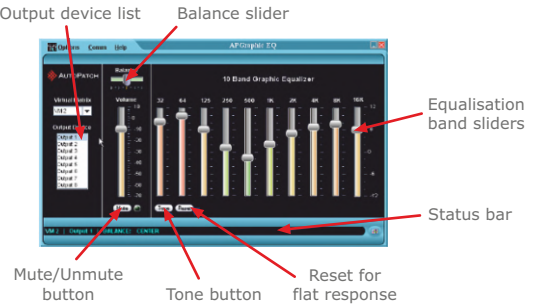
Precis® stereo audio matrix switches with DSP

Precis DSP stereo audio matrix switches provide the ultimate solution for distributed audio by combining the functionality of a matrix switcher with the signal processing of an external equaliser.

They enable exact customisation of each output to support the attributes of individual rooms with a 10-band graphic equalizer on each output and independent input gain, volume, tone and balance control per output.

Precis stereo audio matrix switches are supplied with an intuitive GraphicEQ setup software tool which allows Installers to conveniently manage all audio adjustments and eliminate noticeable differences in volume as the user switches between different sources. Available in 8x8 or 18x18 configurations with industry standard phono I/O connectors, rack mount ears, an internal power supply and an RS-232 control port for system integration and control.

Precis DSP



AP Graphic EQ

Part No.	Description
FGP37-0808-00P	Precis DSP 8x8 stereo audio matrix switch with digital signal processing, 1U
FGP37-1818-00P	Precis DSP 18x18 stereo audio matrix switch with digital signal processing, 2U



Enova® DGX Digital Media - signal management, distribution & switching

Enova® DGX digital media switchers are flexible, configurable matrix switching enclosures to meet today’s needs and beyond. Each chassis includes an integrated NetLinx controller, embedded Ethernet switch and redundant power supplies. The enclosures are ready to be populated with hot-swappable input and output boards, plus optional audio insert/extract boards. Four connections are available per I/O board which can be used in conjunction with Enova DGX Link transmitters and receivers to provide an end-to-end distribution system over UTP (twisted pair cable), fibre or both within the same switch.

An intuitive DGX Configuration Tool allows you to quickly design an Enova DGX system by dragging and dropping module boards onto an enclosure. Once designed, you can save and print the layout and related parts list. Simply follow the step-by-step process and click on the question marks for help along the way. Available online at www.amx.com/enova



Enova® 64 DGX

Features

- InstaGate Pro provides reliable HDCP signal switching without any key constraints
- SmartScale independently converts any source signal to a digital video output that is perfectly scaled for each connected display
- Transmit and control digital video, audio, bi-directional control + Ethernet over UTP, fibre or both within the same system using hot swappable input and output boards
- Fully scalable from 4x4 to 64x64 matrix configurations and anywhere in between (using multiples of 4 inputs & outputs)
- Embedded NetLinx controller allows any connected device to be managed, monitored or controlled
- Integrated Ethernet switch passes Ethernet through the attached UTP or fibre transmitters and receivers

The minimum cable requirement recommended by AMX for their Enova® DXLink platform with 10.2GB/s throughput is shielded Cat6 cable.



Enova® 8 DGX

enovaDGX

Enova® HDMI digital matrix switcher enclosure with integral NetLinx control processor
requires I/O boards available separately

Part No.	Model	Description
FG1058-08	Enova® 8 DGX	8x8 digital matrix enclosure, 4U
FG1058-16	Enova® 16 DGX	16x16 digital matrix enclosure, 4U
FG1059-33	Enova® 32 DGX	32x32 digital matrix enclosure, 6U
FG1060-64	Enova® 64 DGX	64x64 digital matrix enclosure, 13U

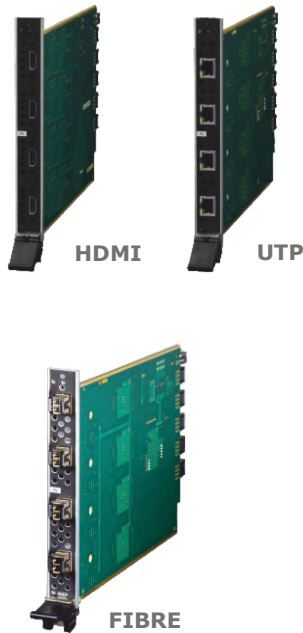
Category cable suitable for Enova® DXLink platform (305m drums)

Part No.	Description
SCP-HNCPLUS-LSZH-SH-BL	HNC ProPlus shielded Cat6 HDBaseT 550Mhz certified cable, LSZH
SCP-HNCPLUS-LSZH-6A	Augmented Cat6A 10G BASE-T 600Mhz certified cable, LSZH
SCP-CAT7-LSZH-BL	Cat7 10G BASE-T 100Mhz certified cable, LSZH

Enova® DGX DXLink I/O boards for use with Enova® switching enclosures

Each Enova® DGX DXLink I/O board is available with direct HDMI, UTP or fibre ports with four connections per board. In addition an audio insert / extract board is available for DGX 16, 32 and 64 enclosures which provides audio insert or extract access to the first 16x inputs or outputs.

Enova® DGX DXLink I/O boards	
Part No.	Description
FG1058-540	4-way HDMI input board
FG1058-550	4-way HDMI output board
FG1058-570	4-port twisted pair input board
FG1058-580	4-port twisted pair output board
FG1058-622	4-port multimode fibre input board, Duplex
FG1058-632	4-port multimode fibre output board, Duplex
FG1058-623	4-port multimode fibre input board, Simplex
FG1058-633	4-port multimode fibre output board, Simplex
FG1058-620	4-port single mode fibre input board, Duplex
FG1058-630	4-port single mode fibre output board, Duplex
FG1058-621	4-port single mode fibre input board, Simplex
FG1058-631	4-port single mode fibre output board, Simplex
FG1058-700	16-way audio insert / extract board



Enova® DGX DXLink Extenders

Enova® DGX DXLink extenders comprise transmitter and receiver modules (available separately) which can be used standalone or in conjunction with Enova® systems to reliably transport digital video, audio, bi-directional control + Ethernet over UTP or fibre.

Enova® DGX DXLink extenders	
Part No.	Description
FG1010-310	Multi-format UTP transmitter module
FG1010-500	HDMI UTP receiver module
FG1010-362	Multi-format multimode fibre transmitter, Duplex
FG1010-562	HDMI multimode fibre receiver, Duplex
FG1010-363	Multi-format multimode fibre transmitter, Simplex
FG1010-563	HDMI multimode fibre receiver, Simplex
FG1010-360	Multi-format single mode fibre transmitter, Duplex
FG1010-560	HDMI single mode fibre receiver, Duplex
FG1010-361	Multi-format single mode fibre transmitter, Simplex
FG1010-561	HDMI single mode fibre receiver, Simplex



Fibre Transmitter



UTP Receiver



ProNet® and Network Topology

ProNet encompasses all things IP and reflects our diverse range of home networking products and services. With CI installations increasingly relying on wired and wireless network infrastructures, appropriate network design requires consideration and an understanding of the types of signal being transported, the number of nodes and distances between them, the physical interconnections, transmission rates, plus the appropriate 'grade' of cable infrastructure and components that need to be deployed to provide reliable system performance.

ProNet reflects our partnership with premium brands that specifically addresses the need for high performance, fully supported network infrastructure products suitable for demanding residential applications including:

- Ruckus smart wireless Wi-Fi solutions
- Niveo PoE Gigabit network switches and controllable, managed PDUs
- SCP HNC ProPlus® / Augmented Cat6A and Cat7 home networking cable
- Cleerline® NSF multimode and single mode fibre
- Planet Waves HDMI interconnect cables & tool-less connectors

ProNet



ProNet is supported by an extensive Training Schedule with a range of hands-on courses available. Full details of training dates, venues and course content are available online at www.habitech.co.uk/training.htm



Control the rack as well as the room

Invariably there’s an equipment rack requirement with most residential system installations, to house system components in an appropriate manner and location. We recommend Chief AV racks and offer their ROTR series which extends and rotates and ensures ease of access which is suitable for free-standing or built-in applications. Alternatively their S1 series of ready to assemble racks can be easily transported and single-handedly quickly assembled on site. Combine with Niveo’s innovative managed PDU systems to control the rack as well as the room. Niveo PDUs manage power delivery and enable you to remotely reset / power cycle connected devices and reduce costly site visits.

Niveo managed PDUs - surge protected with C13 sockets, up to 16A load	
Part No.	Description
NIV-NPD8C16A	8-way metered & switched
NIV-NPDVS20C16A4	20-way metered & switched (20x C13 + 4x C19)



We’ve also commissioned a range of specialist rack-mount kits to accommodate popular system components. Each comprises a product specific faceplate with integrated shelf and adjustable component retaining brackets to ensure equipment stays securely in place. Deep shelves are included as standard to accommodate the potential placement of other low profile accessories, such as UTP transmitter baluns / their associated PSUs (30cm deep for smaller components / 38cm deep for larger components).

Specialist rack-mount kits	
Part No.	Component compatibility
HAB-RM-2U-SKYHD	Sky HD (Amstrad), 2U
HAB-RM-2U-SKYMINI	Sky mini box (Amstrad), 2U
HAB-RM-2U-VIGOR	DrayTek Vigor 2850/2860/2920 routers, 2U
HAB-RM-3U-SONOS	Sonos Connect AMP, 3U
HAB-RM-3U-SONOS2	2x Sonos Connect AMPs (side-by-side), 3U
HAB-RM-2U-SONOS2	2x Sonos Connects (side-by-side), 2U
HAB-RM-2U-SONOS3	3x Sonos Connects (side-by-side), 2U
HAB-RM-1U-APPLE	Apple TV, 1U
HAB-RM-1U-APPLE2	2x Apple TV (side-by-side), 1U
HAB-RM-3U-PS3	PlayStation 3 Slim, 3U



A bespoke component rack-mount design service is also available upon request subject to supplying a sample component with a minimum order quantity of 30.

Resources & Integration Services

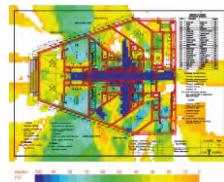
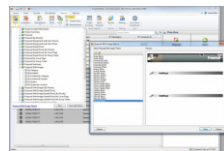
We've developed a range of resources using SharePoint to enable you to request appropriate support and enable us to efficiently quote for hardware and services. Simply follow the step-by-step process and select from convenient drop-down options, available online. In return we'll provide detailed itemised quotations including a comprehensive product listing / bill of materials.

Other services available include:

System design service - using D-Tools and Visio design software we'll produce system design schematics for your installation. These will cover every aspect of the installation, including any extra equipment necessary for the system to function to specification.

Network design and configuration service - once you've provided us with details of the existing or new internet services in your project, we'll design and configure a robust network for the installation, allowing for remote support and VPN. Load balancing and failover are available (if required). All aspects of the network will be covered, including long-distance links and ISP configuration.

Wi-Fi design service - to enable you to accurately specify an appropriate Wi-Fi LAN for your installation, we'll produce a report which optimises smart wireless coverage, simplifies estimating and provides a bill of materials for optimal performance. It incorporates site specific variables such as building materials and potential signal obstructions to generate reliable predictive coverage maps of Wi-Fi signal and performance.



Wi-Fi predictive coverage

Sonance Landscape speaker design service - to enable you to accurately specify a Landscape speaker system for your clients' we'll produce a design proposal which will include details of the recommended speaker layout and amplifier zone configuration.

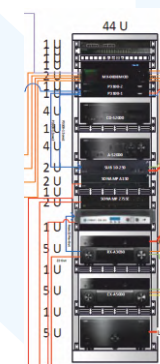
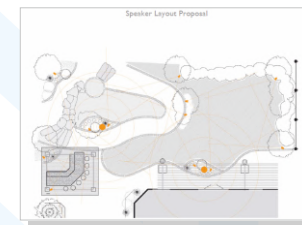
Project drawings - using supplied CAD Drawings, we'll produce a set of overlays in Visio to provide easy-to-follow drawings for your installers or M&E contractors to get the fundamental wiring infrastructure in-place.

Cable schedules - We'll produce a labelled cable schedule in Visio utilising SCP, Clearline fibre and Planet Waves cables/connectors and terminations.

Rack layout service - using Visio design software we'll produce a rack layout based on Chief equipment racks, calculate power consumption and appropriate ventilation / cooling for all products supplied by us, together with any recommendations for power management and backup.

Pre-engineered, tested and programmed systems - we've designed a small number of systems around our core brands that provide integrated AMX controlled solutions - suitable for Cinema Rooms and multizone distributed audio systems.

AMX system programming and UI design - undertaken by experienced ACE certified AMX Programmers. Our team of GUI designers will work hand-in-hand with ACE certified professionals to provide the functionality, look and feel your clients should expect from AMX.



Accredited Partners

Accredited Partners are those we work closely with to maximise opportunities and ensure we collectively win business together. What this means for you depends on how you work! Instead of a pre-defined, fixed offering - we adopt a 'common sense' approach that best supports you and helps us both push projects over the line! Whilst there needs to be some agreement on minimum business levels, we evaluate each project on an individual basis and if you bring us a new AMX opportunity where you can demonstrate that you're driving the specification - we'll register the project and do everything we can to support you in winning the business.

Habitech On-Line

We're continuing to invest in our secure online services to provide you with more user friendly navigation and the information you need on your terms, available whenever you need it, 24/7. With an ever increasing product portfolio, improved online tools help guide you through appropriate product selection within a given product category / brand. Real time pricing, stock information, ordering and Account status/ information are always available online to registered users, any time that suits you!

A new online sales quotation tool will enable you to select the products you're interested in, save them as a quote and export to PFD or Excel for inclusion in project proposals. As and when the project progresses you can simply log in, recall the quote and convert it to a purchase order which will be efficiently processed and despatched. You can also easily amend / edit the original quote to reflect any changes / variations, before submitting it as a purchase order to be processed and despatched.

www.habitech.co.uk



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everything's possible

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